



Figure 2a

Eco RI Nco I

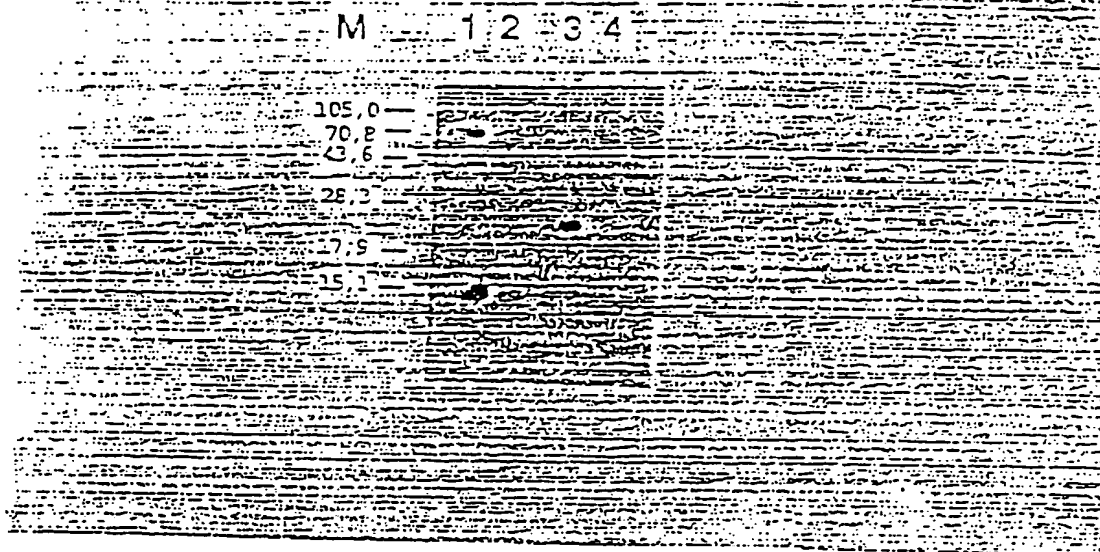
OD	ATGAATTCCCATGGACCTGGGCTGGTAKGAMTGGAT
BMP 2	ACGTGGGGTGGGATGACTGGAT
BMP 3	ATATTTGGCTGGAGTGAATGGAT
BMP 4	ATGTGGGCTGGGATGACTGGAT
BMP 7	ACGTGGGCTGGCAGGACTGGAT
TGF-β1	AGGAOCTGGGCTGGAGTGGAT
TGF-β2	GGGATCTAGGGTGGAAATGGAT
TGF-β3	AGGATCTGGGCTGGGAGTGGGT
Inhibin α	AGCTGGGCTGGGAACGGTGGAT
Inhibin β <sub>A</sub>	ACATGGGCTGGGATGACTGGAT
Inhibin β <sub>B</sub>	TCATGGGCTGGGAACGACTGGAT

Figure 2b

Eco RI

OID	ATGAATTGGAGCTGGGTSGGSTRACAGCA
BMP 2	GAGTTCTGTGGGGACACAGCA
BMP 3	CATCTTTTCTGGTACACAGCA
BMP 4	CAGTTCASTGGGACACACACA
BMP 7	GAGCTGGGTGGGGGACACAGCA
TGF-β1	CAGGGGCTGGGGACGGCAGCA
TGF-β2	TAAATCTTTGGGACAGGGCAGCA
TGF-β3	CAGGTCTCTGGGGACGGCAGCA
Inhibin α	CCCTGGGAGAGCAGCAGCA
Inhibin β <sub>A</sub>	CAGCTTGGTGGGGACACAGCA
Inhibin β <sub>B</sub>	CAGCTTGGTGGGAATGCAGCA

Figure 3



M: prestained protein molecular weight marker with the stated apparent molecular weights listed (Gibco BRL #26041-020)

- 1: Cell culture supernatant (100  $\mu$ l) after infection with recombinant viruses (with inserted MP52 cDNA) under reducing (1 %  $\beta$ -mercaptoethanol) conditions
- 2: Cell culture supernatant (100  $\mu$ l) after infection with wild-type viruses (without inserted foreign DNA) under reducing (1 %  $\beta$ -mercaptoethanol) conditions
- 3: Cell culture supernatant (500  $\mu$ l) after infection with recombinant viruses (with inserted MP52 cDNA) under non-reducing conditions
- 4: Cell culture supernatant (500  $\mu$ l) after infection with wild-type viruses (without inserted foreign DNA) under non-reducing conditions

661480 05135560

667680" 05H98E60

Figure 4

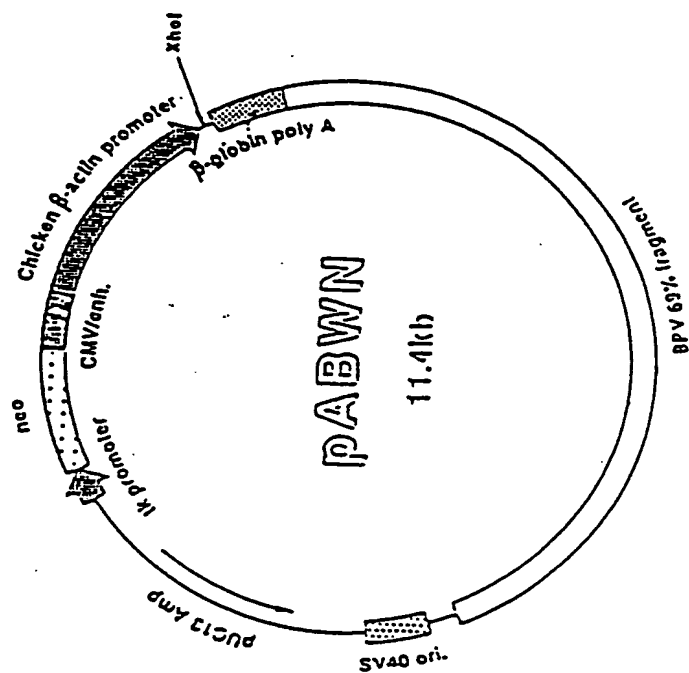






Figure 6

Cross-section of the implant (26 days after implantation) stained according to Masson-Goldner.

- 1: border consisting of osteoblasts (pink in the original)
- 2: osteoid (red in the original)
- 3: mineralized bone tissue (green in the original) with osteocytes (pink in the original )
- 4: bone marrow (slight pink to orange in the original )

**Fig. 1a**

**Fig. 1b**

10 20 30 40 50

SEQ ID NO 13	MP 52	CSRKALHVNF	KDMGWDDWII	APLEYEAFHC	EGLCEFP LRS	HLEPTNHAIVI
SEQ ID NO 14	BMP 2	CKRHPLYVDF	SDVGWNDWIV	APPGYHAFYC	HGECFPPLAD	HLNSTNHAIVI
SEQ ID NO 15	BMP 4	CRRHSLYVDF	SDVGWNDWIV	APPGYQAFYC	HGDCFPPLAD	HLNSTNHAIVI
SEQ ID NO 16	BMP 5	CKKHELYVSF	RDLGWQDWII	APEGYAAFYC	DGECSFPLNA	HMNATNHAIVI
SEQ ID NO 17	BMP 6	CRKHELYVSF	QDLGWQDWII	APKGYAANYC	DGECSFPLNA	HMNATNHAIVI
SEQ ID NO 18	BMP 7	CKKHELYVSF	RDLGWQDWII	APEGYAAFYC	EGECAFP LNS	YMNATNHAIVI

APPROVED	O.G. FIG.	
BY	CLASS	SUECLASS
DRAFTSMAN		

Fig.1b

	60	70	80	90	100
SEQ ID NO 13 MP 52	QTLMNSMDPE	STPPTCCVPT	RLSPISILFI	DSANNVVYKQ	YEDMVVESCQ CR
SEQ ID NO 14 BMP 2	QTLVNSVNS-	KIPKACCVPT	ELSAISMLYL	DENEKVVLKN	YQDMVVEGCG CR
SEQ ID NO 15 BMP 4	QTLVNSVNS-	SIPKACCVPT	ELSAISMLYL	DEYDKVVLKN	YQEMVVEGCG CR
SEQ ID NO 16 BMP 5	QTLVHLMFPD	HVPKPCCAPT	KLNAISVLYF	DDSSNVI LKK	YRNMVVRSCG CH
SEQ ID NO 17 BMP 6	QTLVHLMNPE	YVPKPCCAPT	KLNAISVLYF	DDNSNVI LKK	YRNMVVRACG CH
SEQ ID NO 18 BMP 7	QTLVHFINPE	TVPKPCCAPT	QLNAISVLYF	DDSSNVI LKK	YRNMVVRACG CH
	*** +++ ++	++ + + + + + +	++ ** *	* + + + *	* + + + + + + + + *

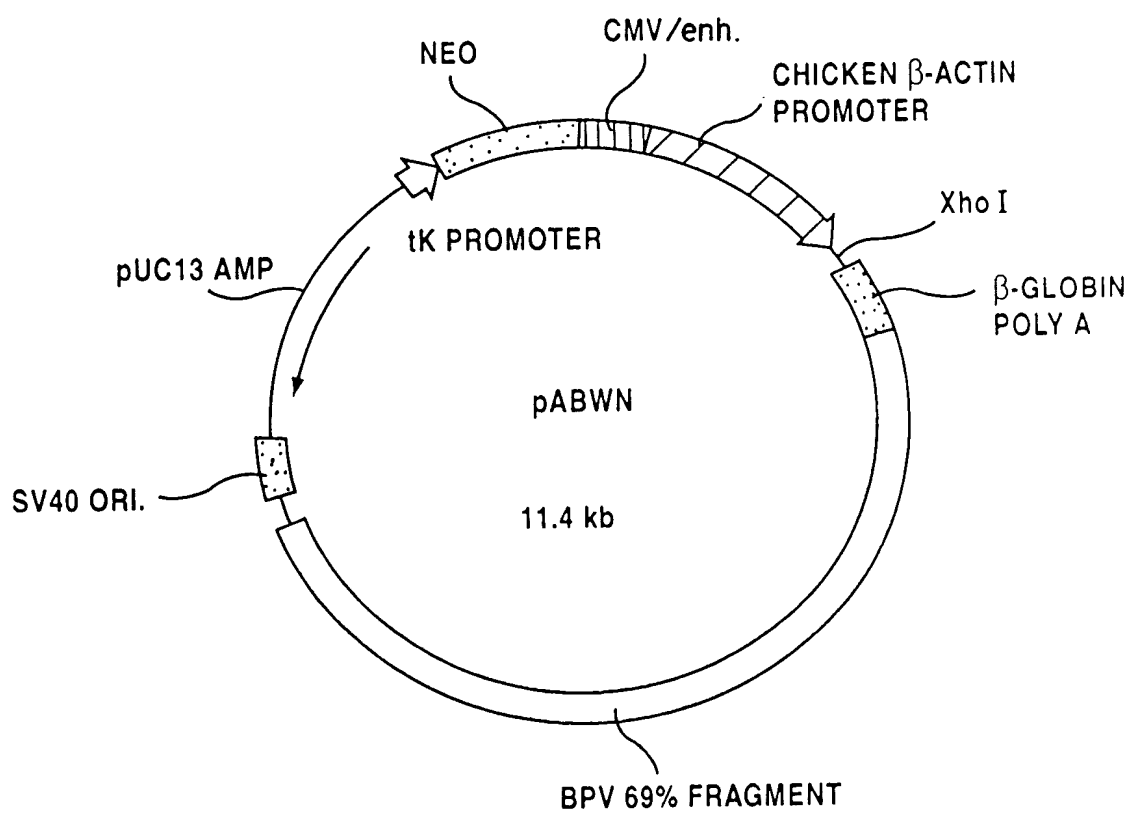






APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Fig.4



003040-002400

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Fig.5



007E30 05453260

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Fig.6



664280" 05493660